

Paper # 7

Sheet 1 of 3

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE
MATERIAL INFORMATION STATEMENT
(Use several sheets if necessary)

ATTY. DOCKET NO.
OMRF108CIP

SERIAL NO.
08/259,321

APPLICANT
Alireza Rezaie, et al.

FILING DATE
June 10, 1994

GROUP
1806

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | IF APPROPRIATE | FILING DATE |
|---------------------|-----------------|----------|-----------------|-------|----------|----------------|-------------|
| PA | AA 4,506,009 | 03/19/85 | Lenhoff, et al. | | | | |
| PA | AB 5,147,638 | 09/15/92 | Esmon, et al. | | | | MAY 22 1995 |
| PA | AC 5,202,253 | 04/13/93 | Esmon, et al. | | | | |
| PA | AD 5,298,599 | 03/29/94 | Rezaie, et al. | | | | |
| PA | AE 5,336,610 | 08/09/94 | Esmon, et al. | | | | |
| | AF | | | | | | |
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| | AI | | | | | | |
| | AJ | | | | | | |
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FOREIGN PATENT DOCUMENTS

| | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
|--|-----------------|------|---------|-------|----------|-------------|----|
| | | | | | | YES | NO |
| | AL | | | | | | |
| | AM | | | | | | |
| | AN | | | | | | |
| | AO | | | | | | |
| | AP | | | | | | |

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AR | Beckmann, Robert J. et al. "The structure and evolution of a 461 amino acid human protein C precursor and its messenger RNA based upon the DNA sequence of cloned human liver cDNAs," <i>Nucleic Acids Res.</i> 13(14):5233-5246 (1985) |
| AS | Colman, R.W., et al. <i>Hemostasis and Thrombosis: Basic Principles and Clinical Practice</i> 2nd Ed., p. 283 (J.B. Lippincott, Philadelphia, PA 1987) |
| AT | Daugherty, et al., <i>Nucl. Acids Res.</i> 19:2471-2476 (1991) |

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| AR | Dreyfus, Marie, et al., "Treatment of Homozygous Protein C Deficiency and Neonatal Purpura Fulminans with a Purified Protein C Concentrate," <u>New England Journal of Medicine</u> 325(22):1565-1568 (1991) |
| AS | Farnon, Charles T., "The Regulation of Natural Anticoagulant Pathways," <u>Science</u> 235:1348-1352 (1987) |
| AT | Farnon, Charles T., "The Roles of Protein C and Thrombomodulin in the Regulation of Blood Coagulation," <u>J. of Biol. Chem.</u> 264(9):4743-4746 (1989) |
| AR | Farnon, C.T., et al., at the Joint IABS/CSI Symposium on Standardization in Blood Fractionation Including Coagulation Factors, Melbourne, Australia 1986 (reported in <u>Develop. Biol. Standard.</u> , 67:51-57 (S. Karger, Basel, 1987) |
| AS | Farnon, C.T., et al., at the Joint IABS/CSI Symposium on Standardization in Blood Fractionation Including Coagulation Factors, Melbourne, Australia 1986 in <u>Develop. Biol. Standard.</u> , 67:75-82 (S. Karger, Basel, 1987) |
| AT | Fraysinet, J.M., et al., "Inhibition of Human Protein C Activation by Vitamin K-dependent Proteins. Involvement of the γ -Carboxyglutamic Acid Domain in Distinct Interactions with the Human Thrombin-Thrombomodulin Complex and Phospholipids," <u>Thrombosis and Haemostasis</u> 58(1):230 (1987) |
| AR | Godino, James W., "Purification, Fragmentation and Isotopic Labeling," <u>Monoclonal Antibodies: Principles and Practices</u> 110-113 (Academic Press, Inc.) (1983) |
| AS | Hendt, Sylvia, et al., "Immunoaffinity purification of protein C with a calcium-dependent monoclonal antibody," <u>Rev. Iberamer. Thromb. Hemostasis</u> 4(1):25-28 (1991) |
| AT | Hongo, Tasuku, et al. <u>Cell</u> 18:559-568, (1979)* |
| AR | Ikeda, Kyoichi and Johan Stenflo, "A Radioimmunoassay for Protein C," <u>Thrombosis Research</u> 39:297-306 (1985) |
| AS | Kabat, H.A., et al., <u>Sequences of Proteins of Immunological Interest</u> , 4th Ed. U.S. Dept. Health and Human Services, Bethesda, MD (1987)* |
| AT | Kiesel, in <u>J. Clin. Invest.</u> 64, 761-769 (1979)* |
| AR | Kobilka, B.K., et al., "Chimeric α - β -Adrenergic Receptors: Delineation of Domains Involved in Effector Coupling and Ligand Binding Specificity," <u>Science</u> 240:1310-1316 (1988)* |
| AS | Laurell, Martin, et al., "Characterization of monoclonal antibodies against human protein C specific for the calcium ion-induced conformation or for the activation peptide region," <u>FEBS Letts.</u> 191(1):75-81 (1985) |
| AT | Metschiner, et al., <u>Current Advances in Vitamin K Research</u> , pp. 135-140, John W. Suttie, ed. (Elsevier Science Publishing Co., Inc. 1988)* |

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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

| | |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AR | Max, Edward, et al. J. Biol. Chem. 256:5116-5120 (1981)* |
| AS | Nakamura, Satoko and Yoichi Sakata. "Immunoaffinity purification of protein C by using conformation-specific monoclonal antibodies to protein C-calcium ion complex." <u>Biochimica et Biophysica Acta</u> 925:85-93 (1987) |
| AT | Ohlin, Ann-Kristin and Johan Stenflo. "Calcium-dependent interaction between the Epidermal Growth Factor Precursor-like Region of Human Protein C and a Monoclonal Antibody." <u>J. Biol. Chem.</u> 262:13798-13804 (1988) |
| AR | Ohlin, A. K. and J. Stenflo. "High Affinity Calcium to Domains of Protein C That are Homologous to the Epidermal Growth Factor." <u>Thrombosis and Haemostasis</u> 58(1):230 (1987) |
| AS | Riechmann, L. M. Clark, H. W. Winkler, G. Winter. "Reshaping human antibodies for therapy." <u>Nature</u> 332:323-327 (1988)* |
| AT | Seligson, Uri, et al. "Homozygous Protein C Deficiency Manifested by Massive Venous Thrombosis in the Newborn." <u>New England J. of Medicine</u> 310(9):559-562 (1984) |
| AR | Stearns, Deborah, et al. "The Interaction of a Ca ²⁺ -dependent Monoclonal Antibody with the Protein C Activation Peptide Region." <u>J. Biol. Chem.</u> 263(2):826-832 (1988) |
| AS | Succo, et al. <u>Thromb. Hemost. Abstr.</u> Brussels, 229 (1987)* |
| AT | Summers, M.D. and G.E. Smith. "A manual of methods for baculovirus vectors and insect cell culture procedures." <u>Texas Agricultural Experimental Station</u> (1987)* |
| AR | Suzuki, Kobi, et al. "Monoclonal Antibodies to Human Protein C: Effects on the Biological Activity of Activated Protein C and the Thrombin-Catalyzed Activation of Protein C." <u>J. Biochem.</u> 97:127-138 (1985) |
| AS | Taylor, F. B., et al. "Protein C Prevents the Coagulopathic and Lethal Effects of <i>Escherichia coli</i> Infusion in the Baboon." <u>J. Clin. Invest.</u> 79:918-925 (1987) |
| AT | Verhoeven, M., C. Milstein, G. Winter. "Reshaping Human Antibodies: Grafting an Antihistamine Activity." <u>Science</u> 239:1534-1536 (1988)* |
| AR | Vukovich, Thomas, et al. "Replacement therapy for a homozygous protein C deficiency state using a concentrate of human protein C and S." <u>British J. of Haematology</u> 70:435-440 (1988) |
| AS | Wakabayashi, et al. <u>J. Biol. Chem.</u> 261, 11097-11105 (1986)* |
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